

**Revised Initial Study with Proposed Mitigated Negative
Declaration/
Environmental Assessment**

Submitted Pursuant to: (State) Division 13, California Public Resources Code
(Federal) 42 USC 4332(2)(C)

The State of California
State Coastal Conservancy

United States Fish and Wildlife Service
Humboldt Bay National Wildlife Refuge

United States Bureau of Land Management
Arcata Field Office

Table of Contents

1.0 PURPOSE AND NEED FOR ACTION.....	1
1.1 Introduction.....	1
1.2 Background and Agency Involvement.....	4
1.3 Scope and Purpose for the Proposed Action.....	6
2.0 ALTERNATIVES INCLUDING PROPOSED ACTION.....	8
2.1 Description of Plan Alternatives.....	8
2.2 Comparison of Alternatives.....	15
2.3 Permits and Approvals Needed	21
3.0 AFFECTED ENVIRONMENT & ENVIRONMENTAL CONSEQUENCES	22
3.1 Aesthetics.....	22
3.2 Agricultural Resources.....	24
3.3 Air Quality	25
3.4 Biological Resources	27
3.5 Cultural Resources	99
3.6 Geology and Soils.....	103
3.7 Hazards and Hazardous Materials	107
3.8 Hydrology & Water Quality	113
3.9 Land Use and Planning	120
3.10 Mineral Resources	122
3.11 Noise	122
3.12 Population and Housing.....	125
3.13 Public Services.....	126
3.14 Access and Recreation	127
3.15 Transportation/Traffic.....	133
3.16 Utilities and Service Systems.....	137
4.0 CUMULATIVE IMPACTS.....	141
5.0 COMMENTS AND COORDINATION	143
6.0 MITIGATED NEGATIVE DECLARATION	145
7.0 FINDING OF NO SIGNIFICANT IMPACT	148
8.0 REFERENCES	149
9.0 APPENDICES	155

List of Figures

Figure 1. Location Map.....	3
Figure 2. Ma-le'l Dunes Cooperative Management Area (CMA) and Properties.....	5
Figure 3. Existing Features of the Ma-le'l Dunes CMA.....	7
Figure 4. Alternative A: The Proposed Plan.....	14
Figure 5. Vegetation Types at the Ma-le'l Dunes CMA.....	30
Figure 6. Special Status Species at the Ma-le'l Dunes CMA	45
Figure 7. Federally Listed Plant Species of the Ma-le'l Dunes CMA	66
Figure 8. Topographic Map of the Ma-le'l Dunes CMA.....	105

List of Tables

Table 1. Comparison of Alternatives	19
Table 2. Permits and Approvals Needed for Proposed Project.....	21
Table 3. Summary of Vegetation and Habitat Types and Representative Acreage for Ma-le'l Dunes CMA.....	31
Table 4. Special Status Species Addressed for the Ma-le'l Dunes Cooperative Management Area Public Access Plan.....	46
Table 5. Summary of Wetland Areas at Ma-le'l Dunes CMA	116
Table 6. Approximate Length of Trails at the Ma-le'l Dunes CMA	132